502501266 09/19/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

CONVEYING PARTY DATA

Name	Execution Date
Atsutaka MANABE	07/17/2013
Dagmar KLASS	07/17/2013
Christian JASPER	07/17/2013
Volker REIFFENRATH	07/17/2013
Detlef PAULUTH	07/17/2013

RECEIVING PARTY DATA

Name:	Merck Patent GmbH	
Street Address:	Frankfurter Strasse 250	
City:	Darmstadt	
State/Country:	GERMANY	
Postal Code:	64293	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14006109

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 703-243-6333
Email: mail@mwzb.com

Correspondent Name: Millen, White, Zelano & Branigan (Mia)

Address Line 1: 2200 Clarendon Blvd.

Address Line 2: Suite 1400

Address Line 4: Arlington, VIRGINIA 22201

ATTORNEY DOCKET NUMBER:	MERCK-4129
NAME OF SUBMITTER:	Michaiah Copp
	PATENT

502501266 REEL: 031237 FRAME: 0458

IOP \$40.00 14006109

Signature:	/Michaiah Copp/
Date:	09/19/2013
Total Attachments: 1 source=4129_EXECUTED_Assignment#page1.tif	

PATENT REEL: 031237 FRAME: 0459

ASSIGNMENT

ATTY DOCKET NO.

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

		NIC COMPOUNDS, LIQU	JID-CRYSTALLINE	MEDIA A	AND COMPOUN	IDS FOR	HIGH-FREQUENCY
and for	which one o	LOGY r more of the following apply:					
	U.S. Pro	visional Application Serial No.	was filed in the United	States Patent a	nd Trademark Offic	e on .	
	A U.S. N	Ion-Provisional					
		as International Application No. PCT/El	r Letters Patent was filed in	the U.S. Pater	it and Trademark Of e United States.		ited on even date.
	, W UMA		ENT GESELLSCHAFT RÄNKTER HAFTUNG ermany				

hereinafter referred to as the ASSIGNER, is desirous of acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and fureign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all represents recognized extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renowals, reissues, recomminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filling or securing of patents in the United States and/or any countries foreign thereto concerning said invention. SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all eather priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all renewals, trassues, and advantages in anywise arising from or appertanting thereto, for induding the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, recomminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and benefitical a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNER, its assigns and legal representatives and to execute any other papers that may be needed in connection with filling said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to property record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVESTOR	INVENTOETS SIGNATURE	T DATE 1
MANABE, Atsutaka	Stould Manil	¹ 7. Juli 201 3
202 FULL NAME OF SECOND JOINT INVENTOR	inventor's signature	DATE
KLASS, Dagmar	Day Klass	17. Juli 2013
203 FULL NAME OF THERD JOINT INVENTOR	SIVENTOR'S SIGNATURE	DATE
JASPER, Christian	Chiston mas	17. Juli 2013
204 FULL NAME OF FOURTH JOINT INVENTOR	I MAINTON PROMY LEAD.	DAYE
REIFFENRATH, Volker	Volker Co Ball	. 17. Juli 2013
203 FULL NAME OF FIFTH JOINT INVENTOR	INVENTIONS SIGNATURE	BLYG
PAULUTH, Detlef	Vely ree	¹ 7. Juli 201 3
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOE'S SIGNATURE	DATE
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
SOA LOTT IAVING OL MILITA COME HAARINGE	M. C.S. I D. G SIGHA C. GC.	=======================================
		:
<u> </u>		······

PATENT REEL: 031237 FRAME: 0460

RECORDED: 09/19/2013